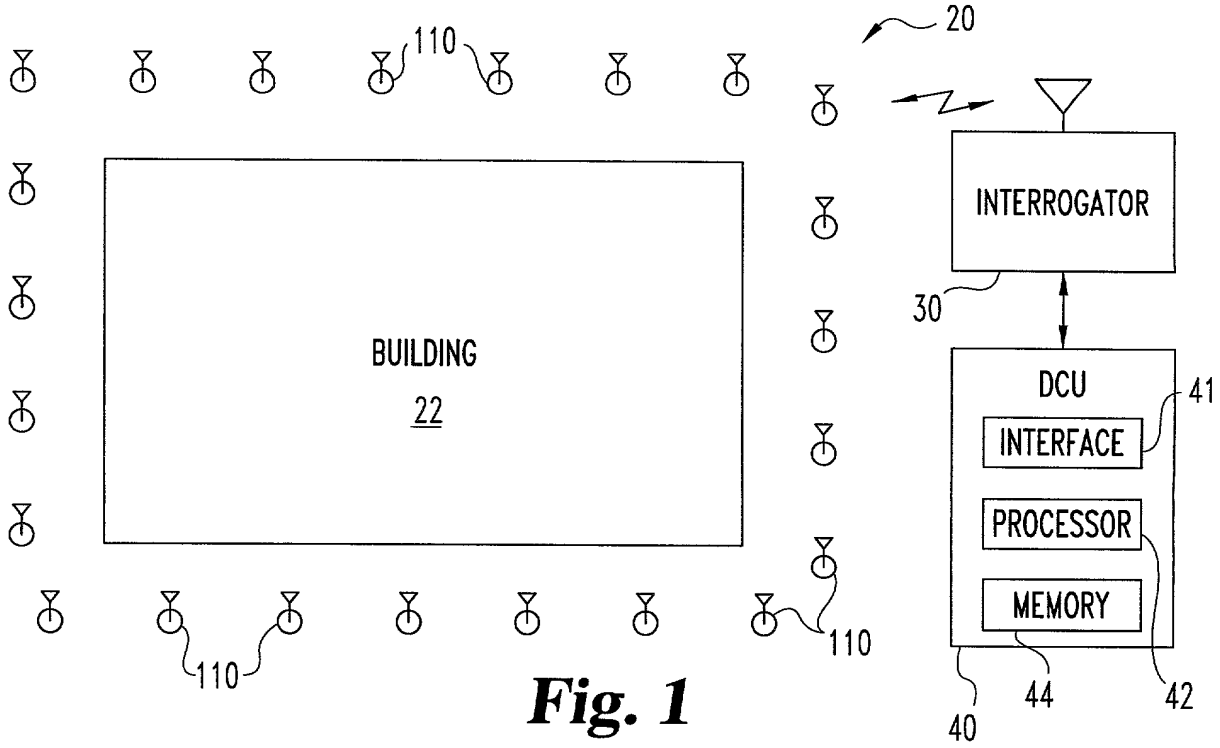
20
110
INTERROGATOR
30
BUILDING
22
DCU
41
INTERFACE
PROCESSOR
MEMORY
110
110
40
44
42

Fig. 1

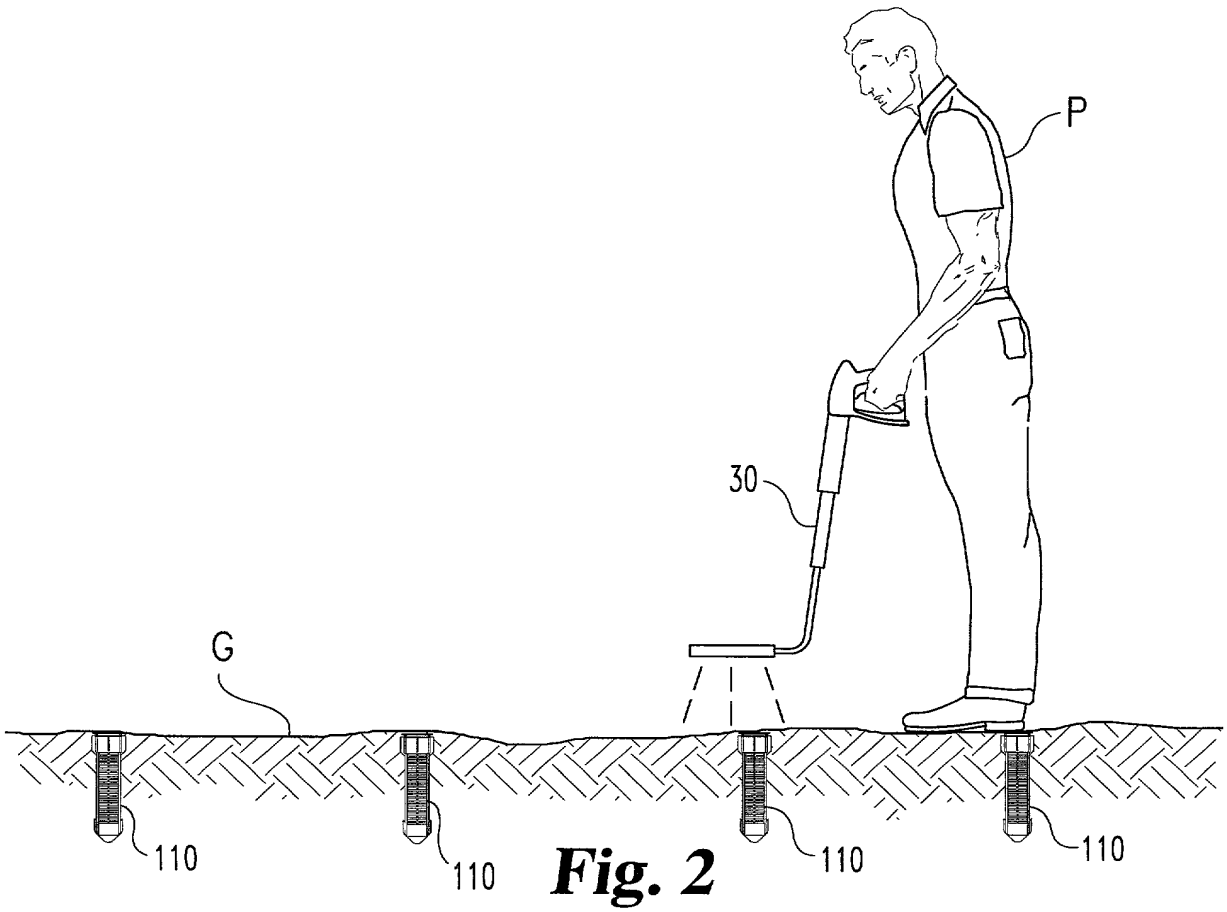
P
30
G
110
110
110
110

Fig. 2

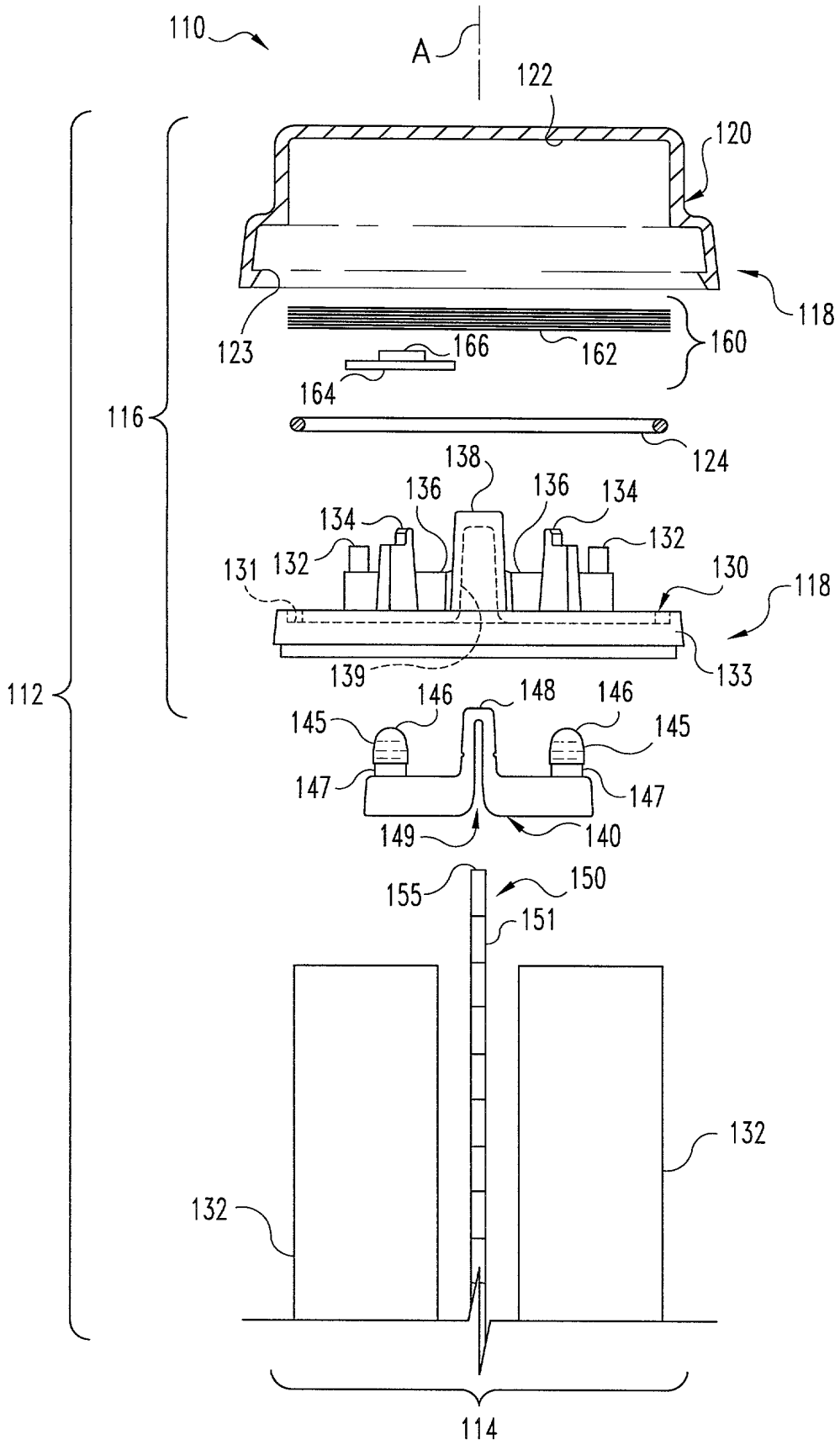
110
A
122
120
118
123
166
162
160
164
116
124
138
136
136
134
134
132
131
132
130
118
139
133
112
146
148
146
145
145
147
147
149
140
155
150
151
132
132
114

Fig. 3

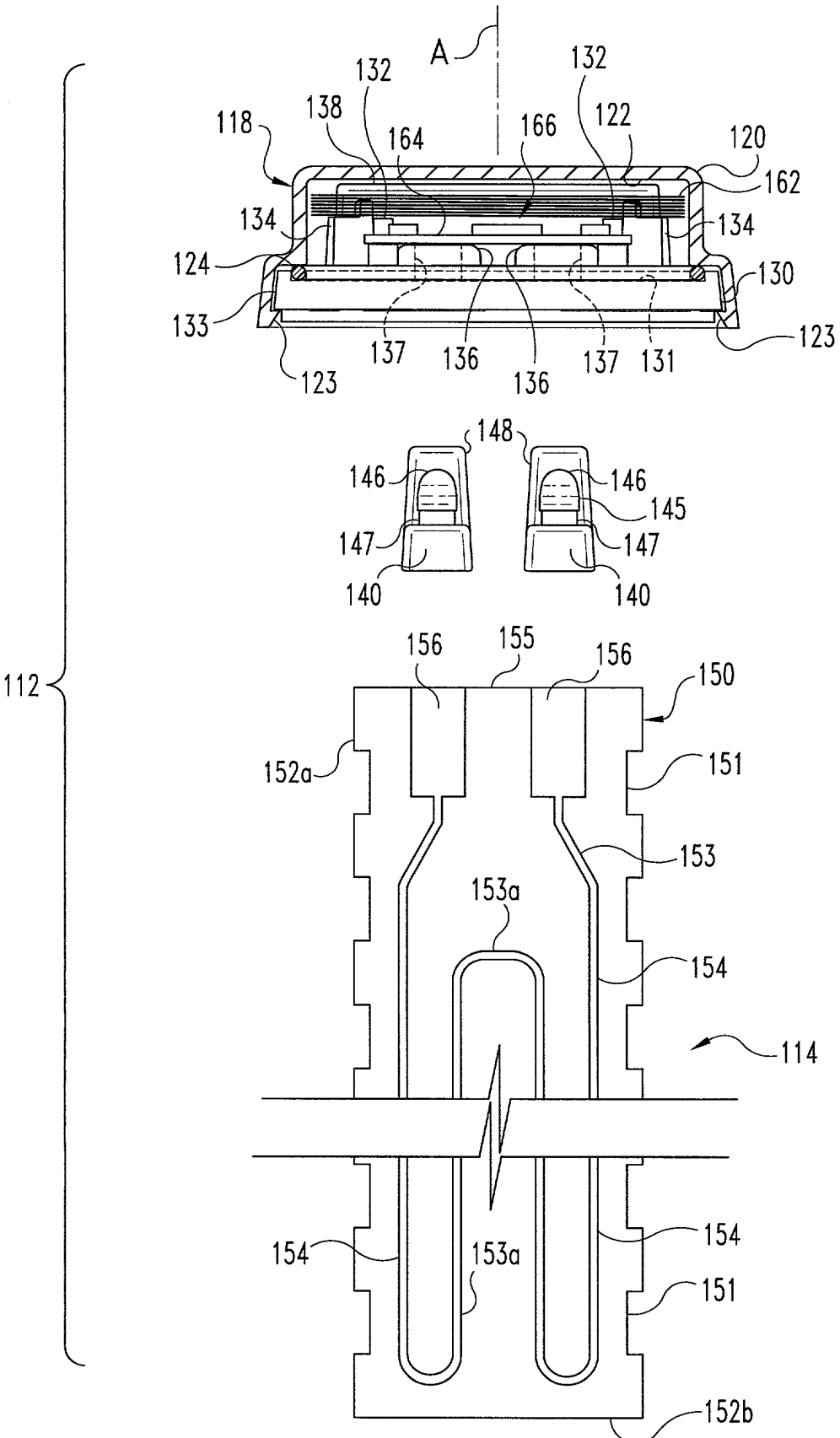
A
132
132
138
118
164
166
122
120
162
134
134
124
130
133
123
137
136
136
137
131
123
148
146
146
145
147
147
140
140
112
156
155
156
150
152a
151
153
153a
154
114
154
153a
154
151
152b

Fig. 4

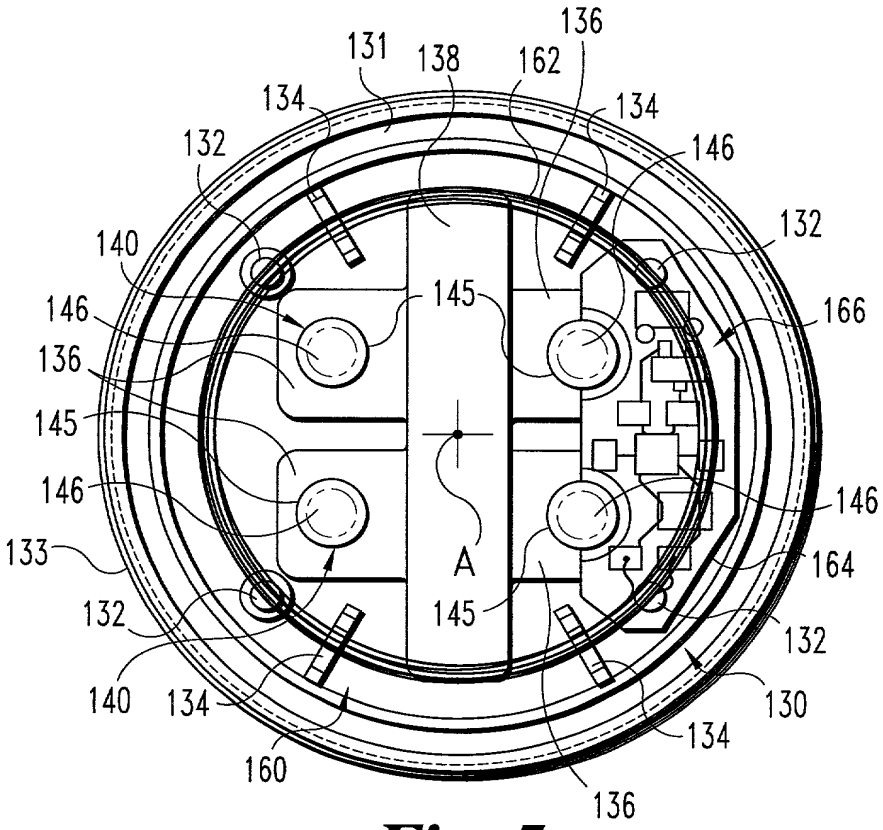
136
131
138
162
134
134
132
146
140
132
145
146
166
136
145
146
146
133
A
164
132
145
132
140
134
130
134
160
136

Fig. 5

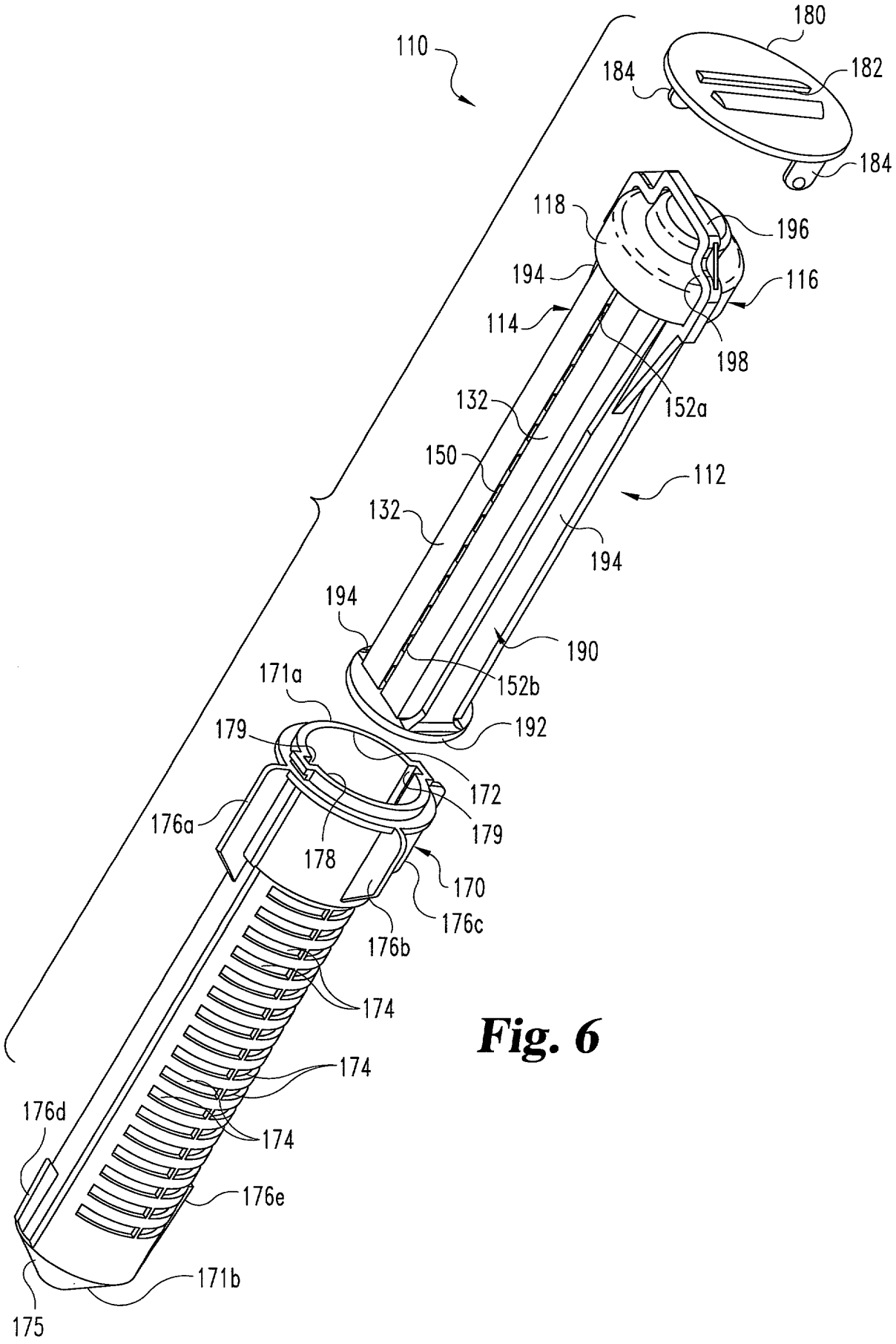
110
180
184
182
184
118
196
194
116
114
198
132
152a
150
112
132
194
194
190
171a
152b
179
192
172
176a
179
178
170
176c
176b
174
174
176d
174
176e
171b
175

Fig. 6

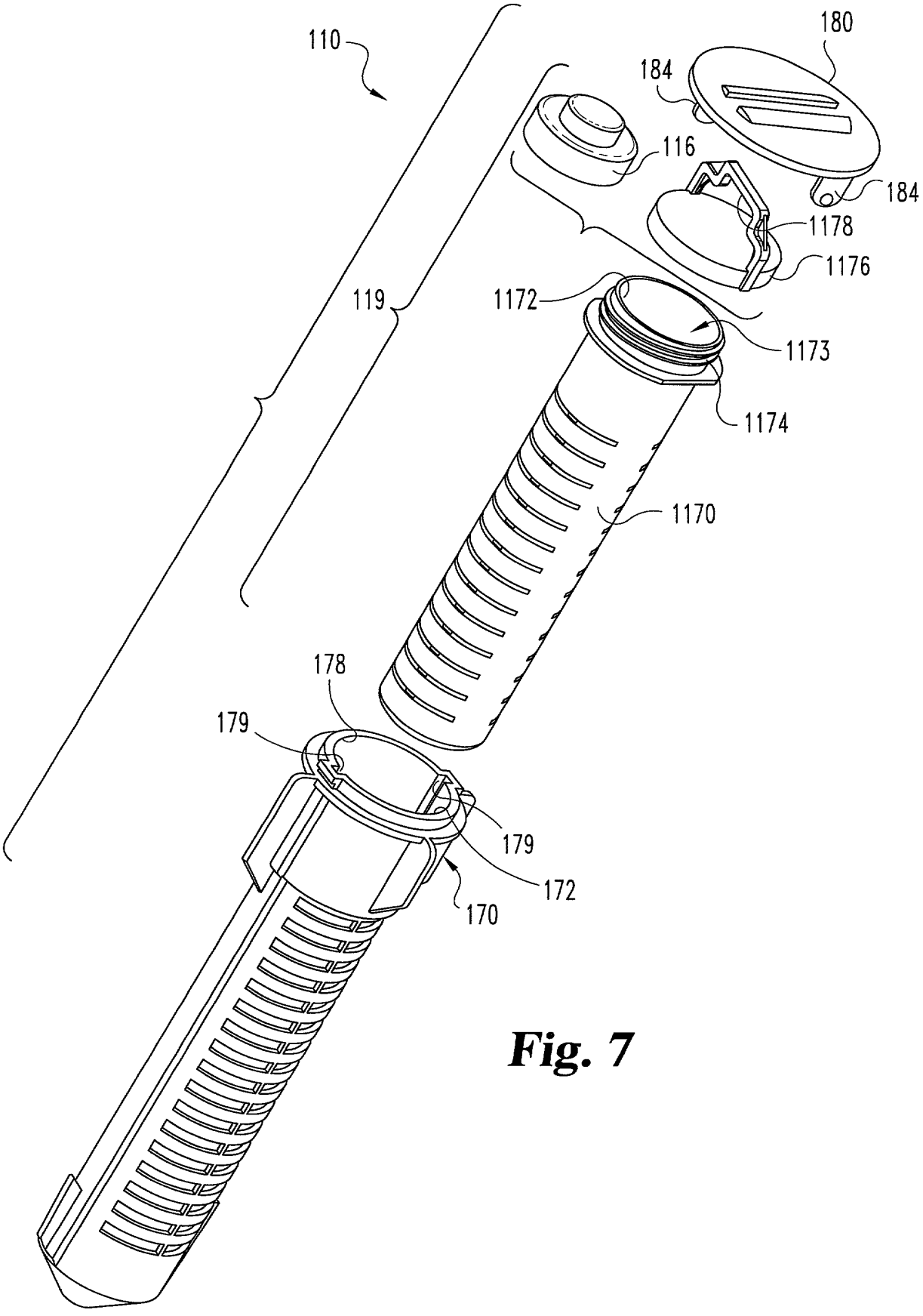
110
180
184
184
116
1178
1176
119
1172
1173
1174
1170
178
179
179
172
170

Fig. 7

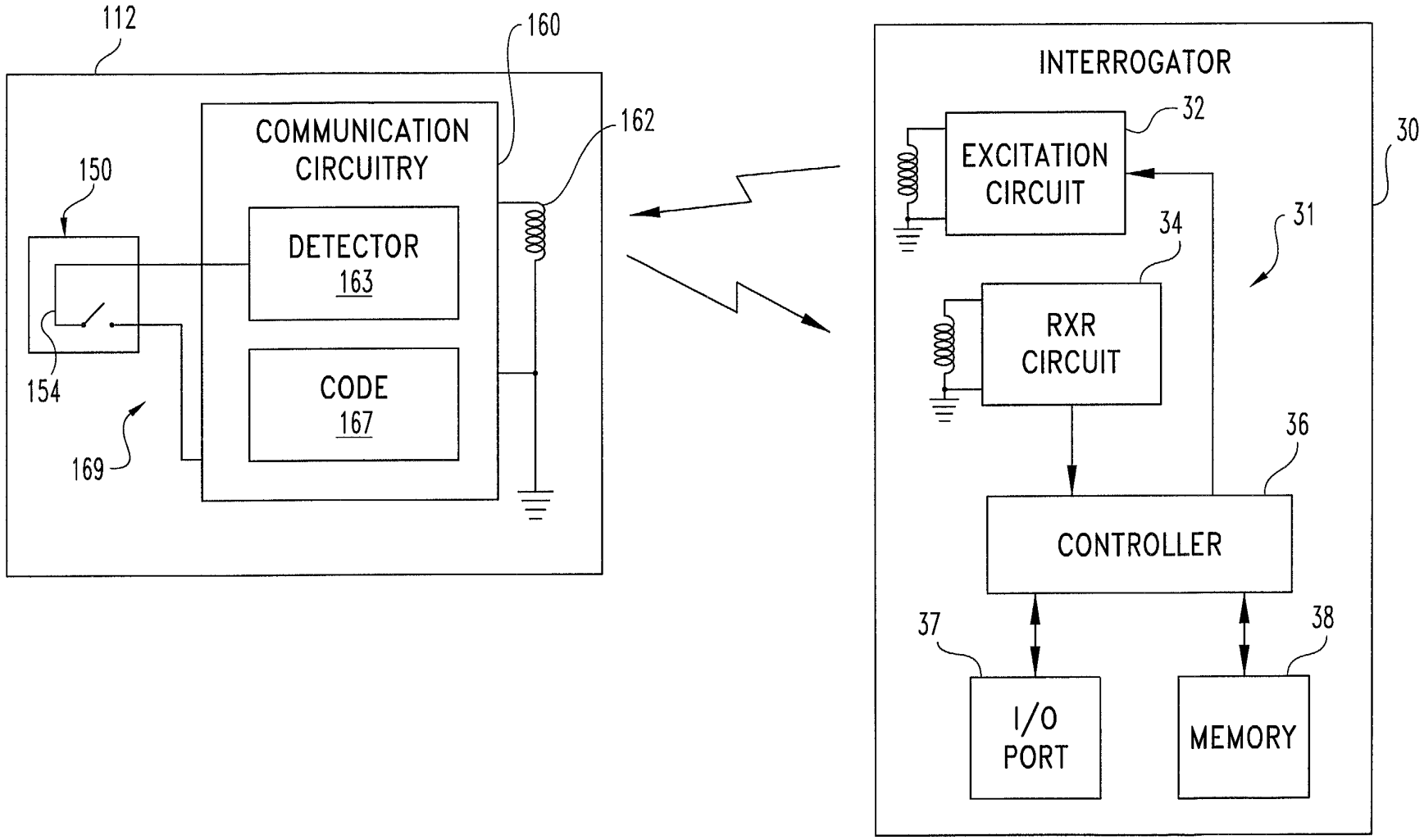
112
160
162
150
COMMUNICATION CIRCUITRY
DETECTOR
163
CODE
167
154
169
INTERROGATOR
30
32
EXCITATION CIRCUIT
31
34
RXR CIRCUIT
36
CONTROLLER
37
38
I/O PORT
MEMORY

Fig. 8

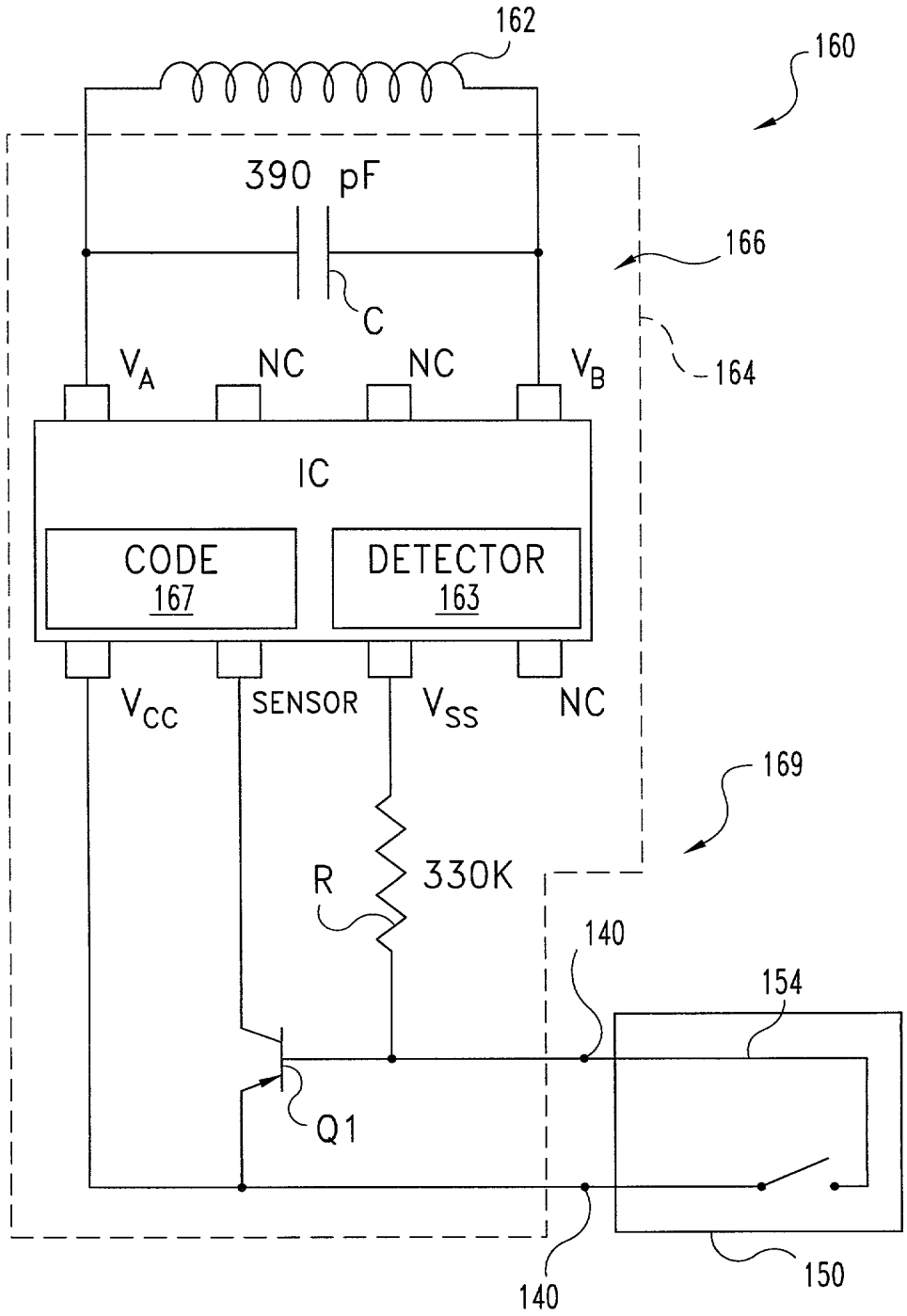
162
160
390 pF
166
C
164
V_A
NC
NC
V_B
IC
CODE
167
DETECTOR
163
V_{CC}
SENSOR
V_{SS}
NC
169
R
330K
140
154
Q1
140
150

Fig. 9

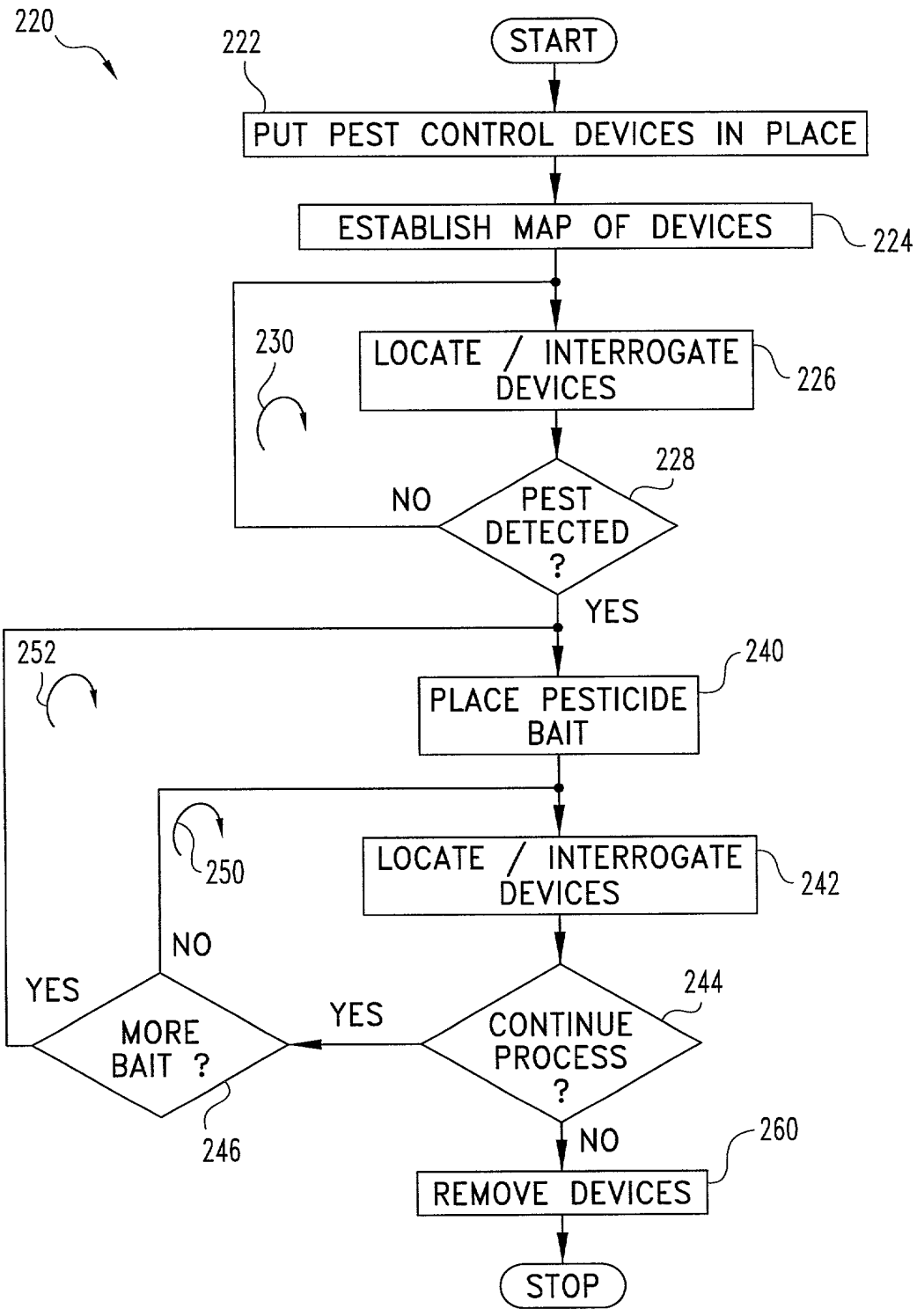
220
222
START
PUT PEST CONTROL DEVICES IN PLACE
ESTABLISH MAP OF DEVICES
224
230
LOCATE / INTERROGATE DEVICES
226
228
NO
PEST DETECTED ?
YES
252
240
PLACE PESTICIDE BAIT
250
LOCATE / INTERROGATE DEVICES
242
NO
YES
YES
MORE BAIT ?
244
CONTINUE PROCESS ?
246
NO
260
REMOVE DEVICES
STOP

Fig. 10

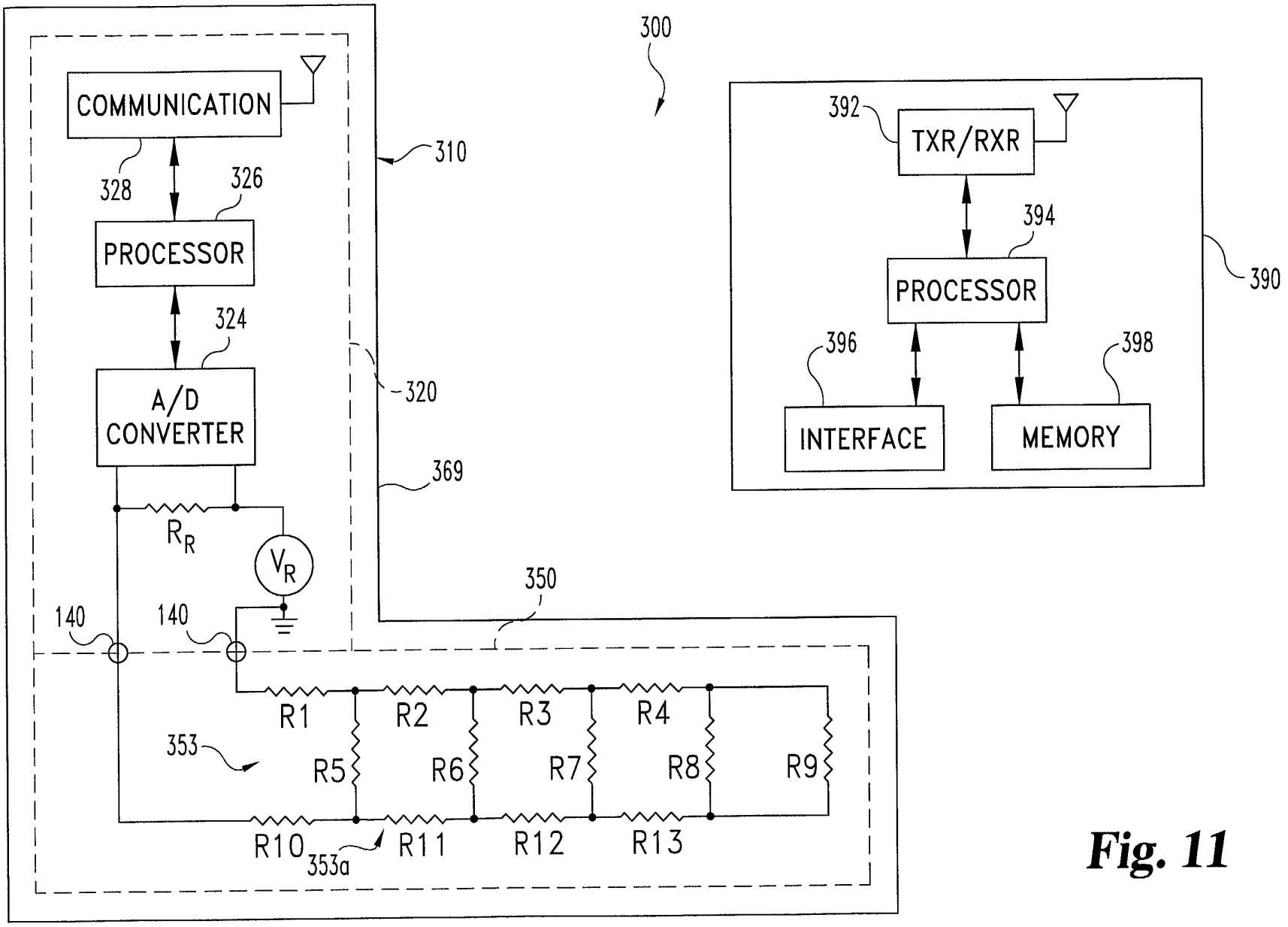
300
COMMUNICATION
310
328
326
PROCESSOR
324
A/D CONVERTER
320
369
R_R
V_R
350
140
140
R1
R2
R3
R4
353
R5
R6
R7
R8
R9
R10
353a
R11
R12
R13
392
TXR/RXR
394
PROCESSOR
390
396
398
INTERFACE
MEMORY

Fig. 11

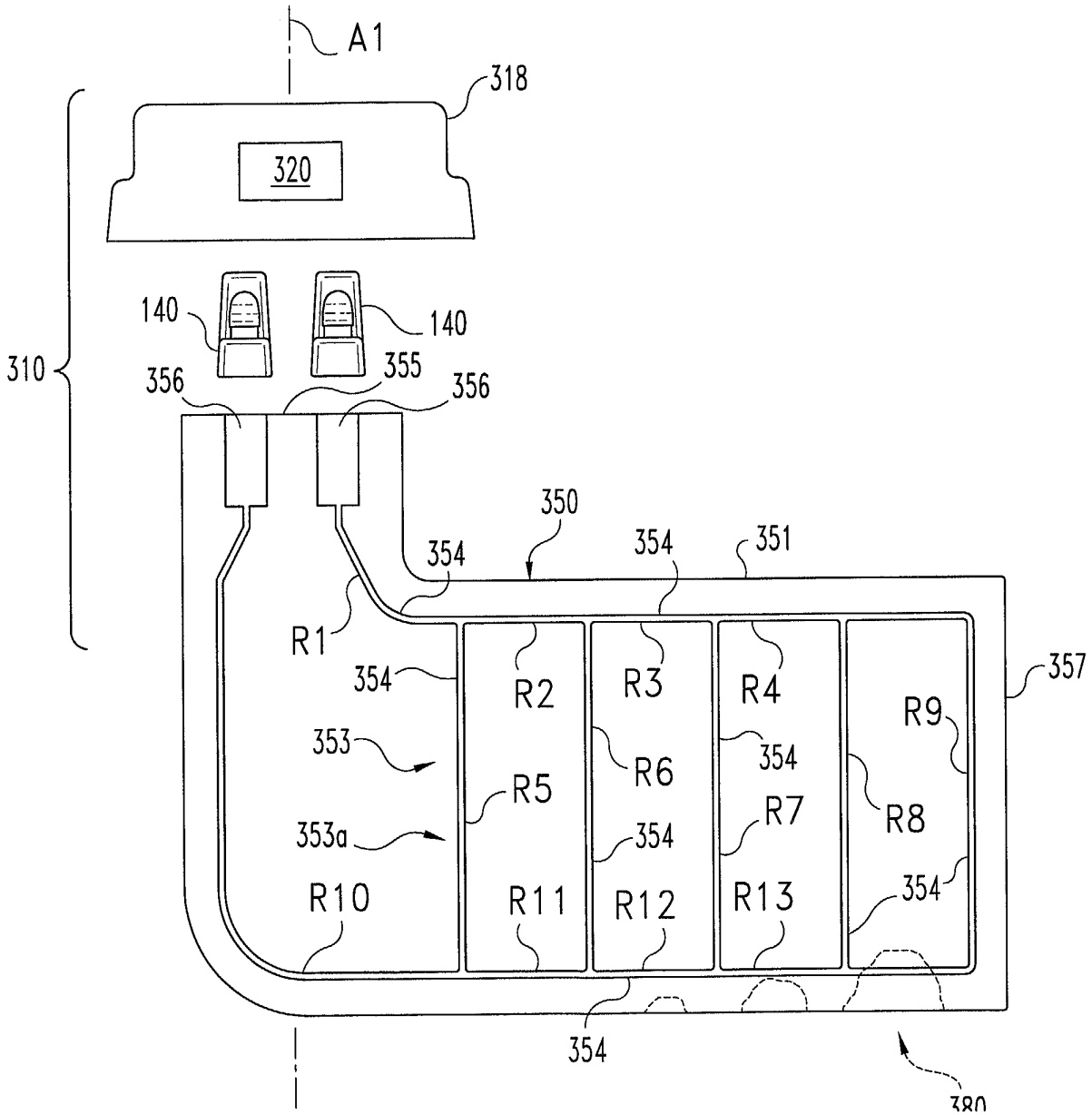
A1
318
320
140
140
310
356
355
356
350
354
354
351
R1
354
R2
R3
R4
357
R9
353
R5
R6
354
353a
R7
R8
354
R10
R11
R12
R13
354
354
380

Fig. 12

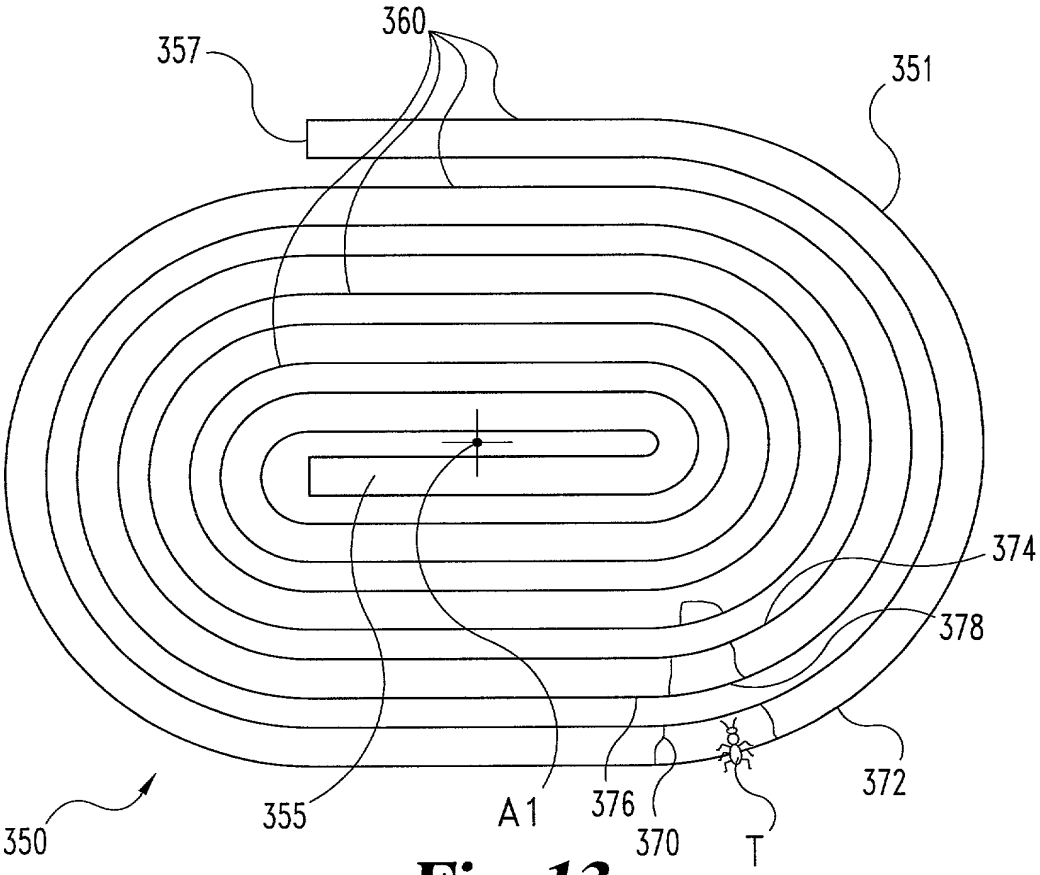

Fig. 13

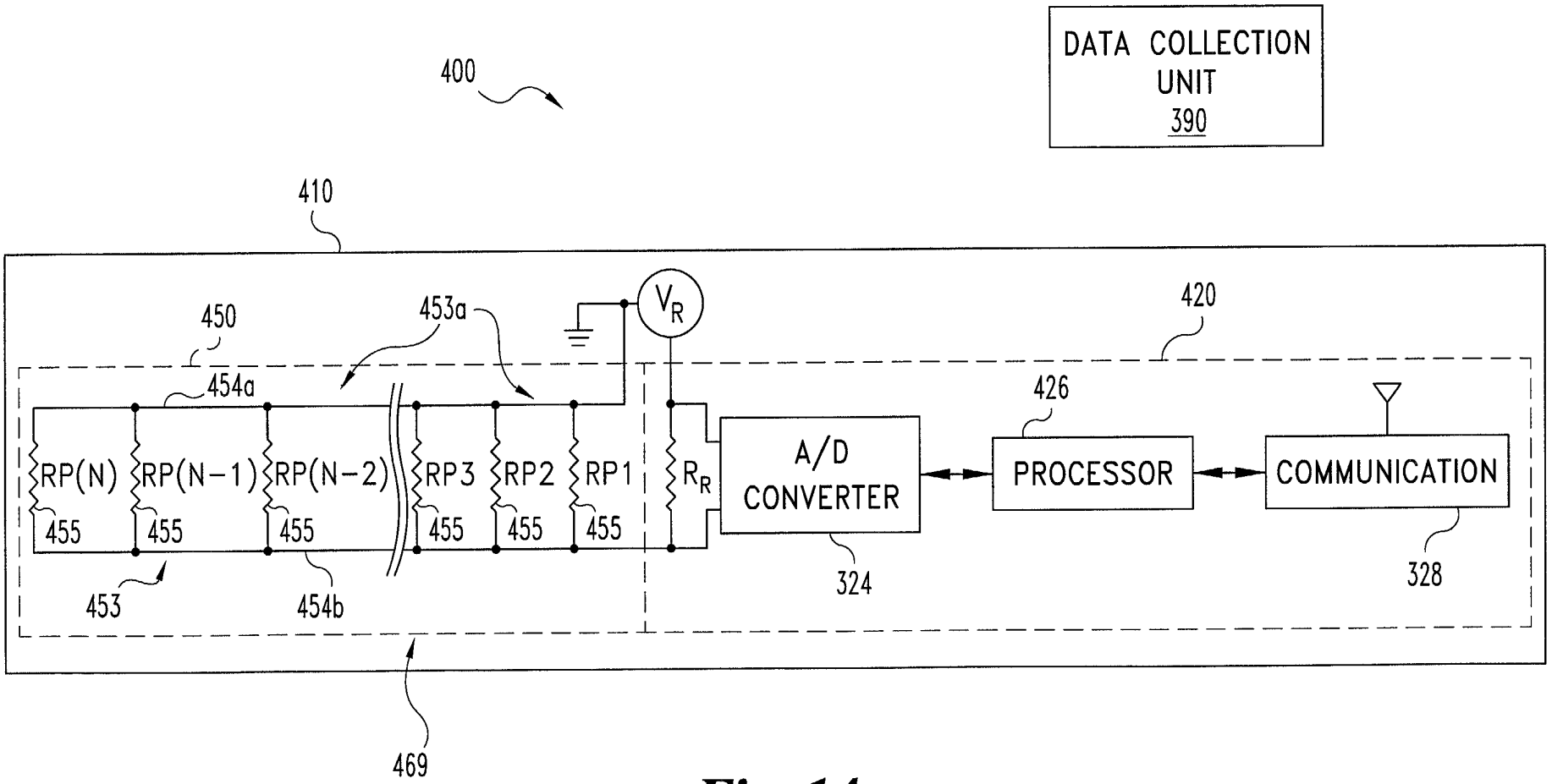

Fig. 14

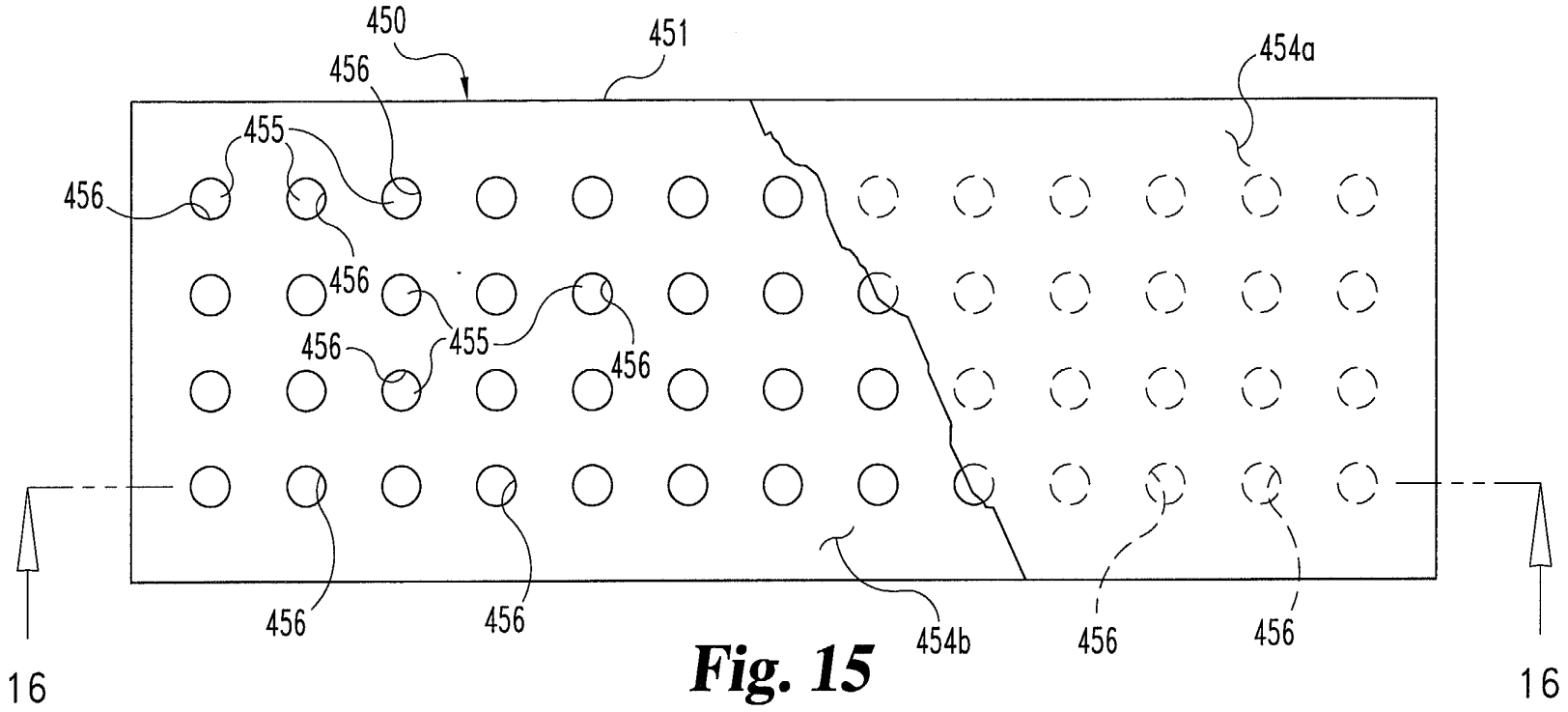

Fig. 15

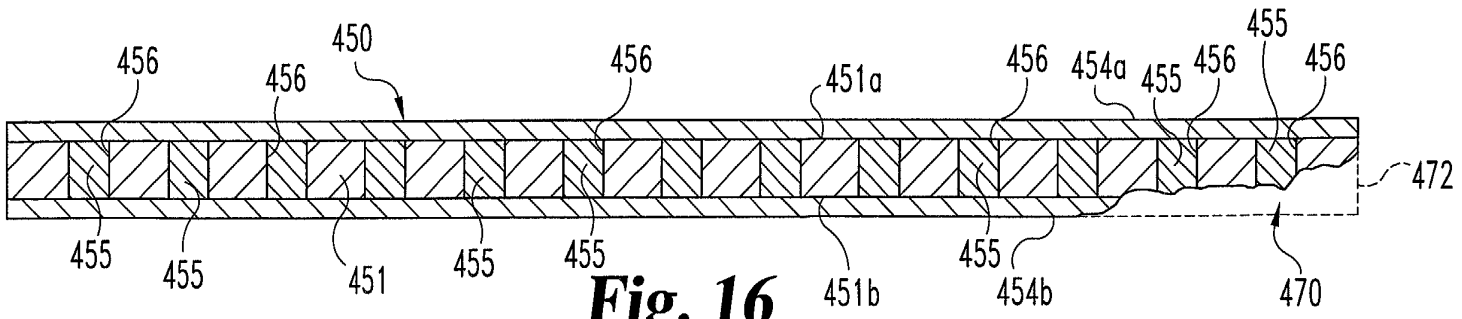

Fig. 16

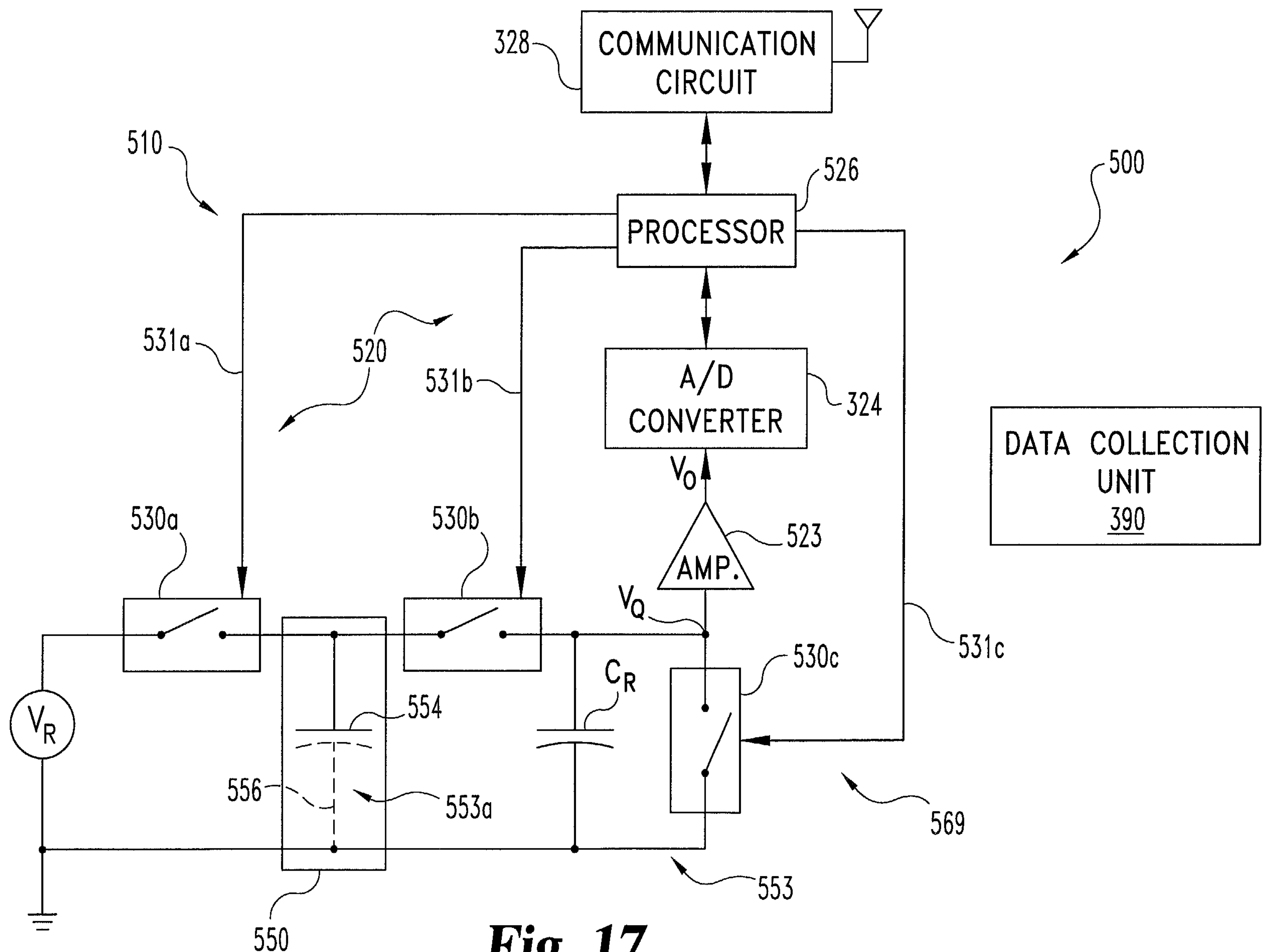

Fig. 17

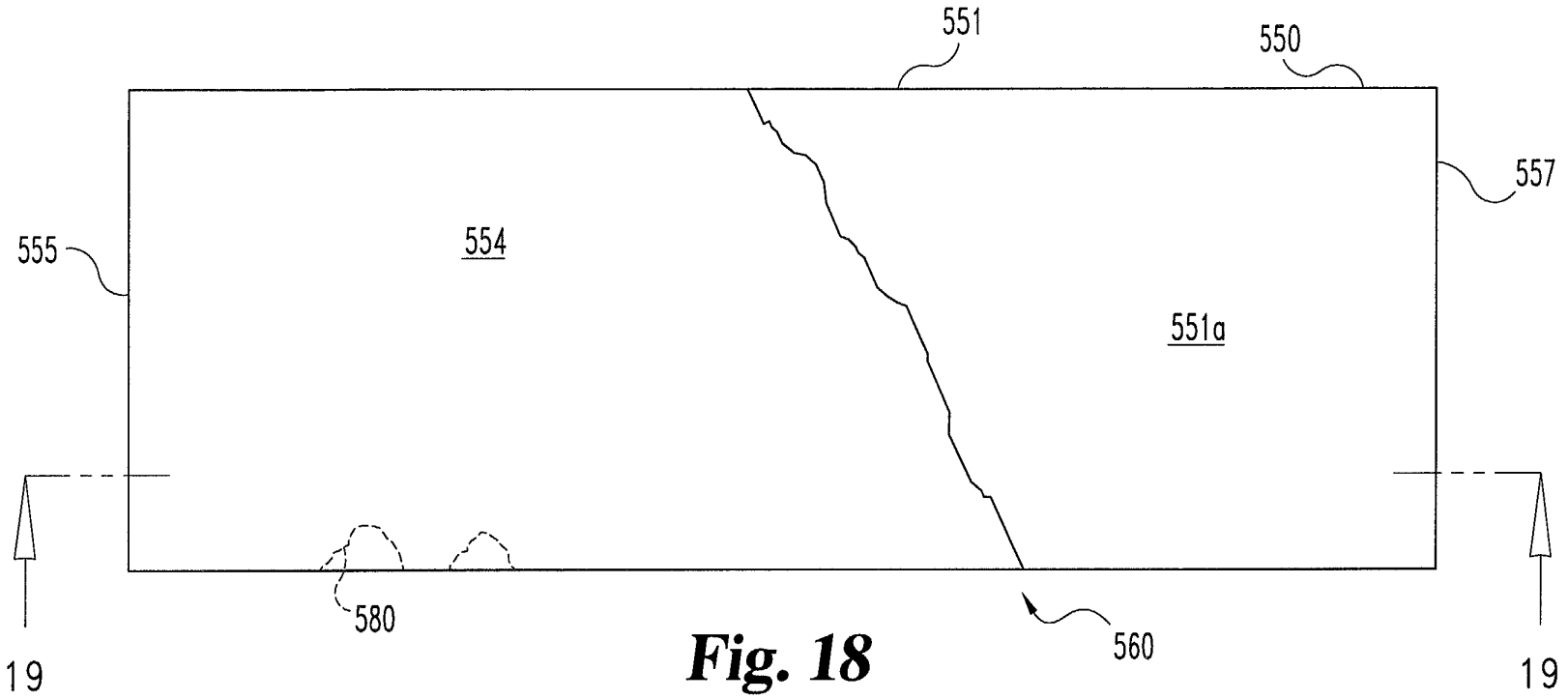
551
550
557
555
554
551a
580
560
19
19

Fig. 18

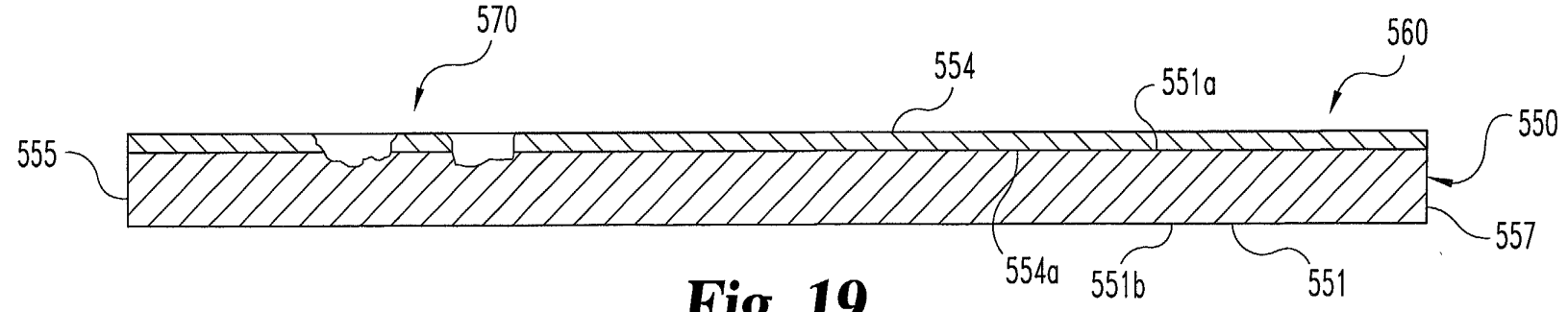
570
554
551a
560
555
550
557
554a
551b
551

Fig. 19

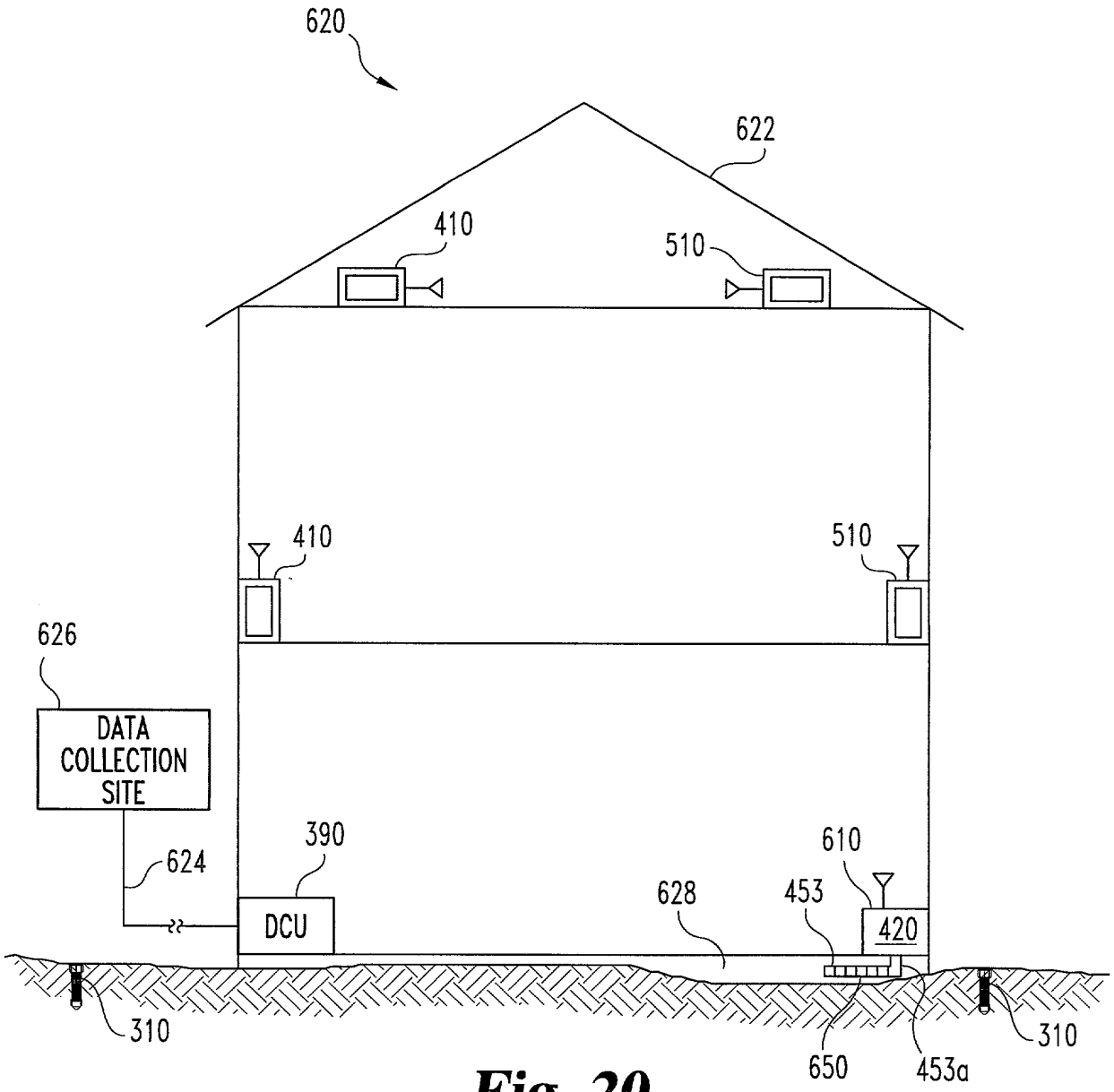
620
622
410
510
410
510
626
DATA
COLLECTION
SITE
624
390
DCU
628
610
453
420
310
310
650
453a

Fig. 20

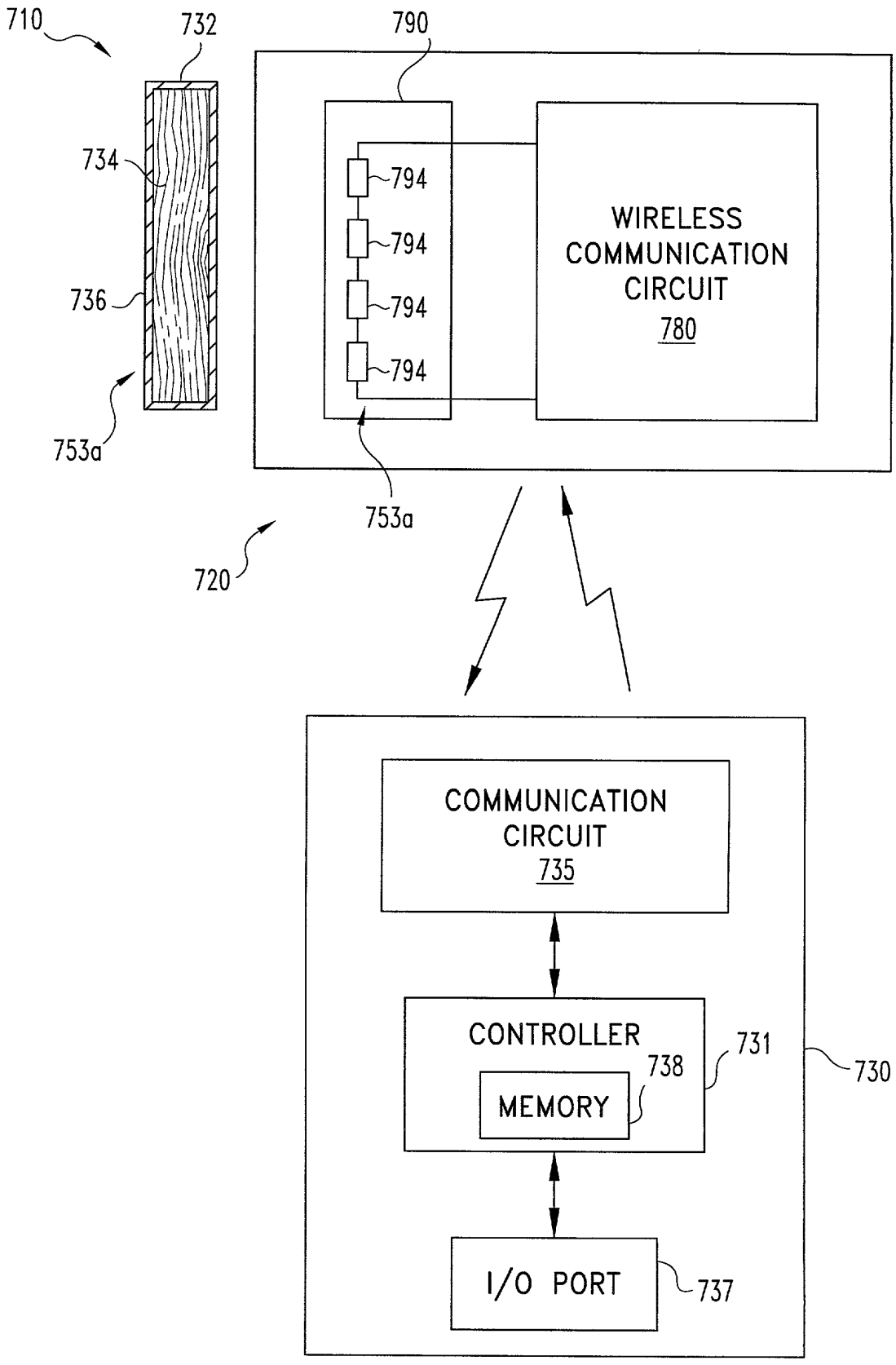
710
732
790
734
794
794
794
794
WIRELESS
COMMUNICATION
CIRCUIT
780
736
753a
753a
720
COMMUNICATION
CIRCUIT
735
CONTROLLER
738
MEMORY
731
730
I/O PORT
737

Fig. 21

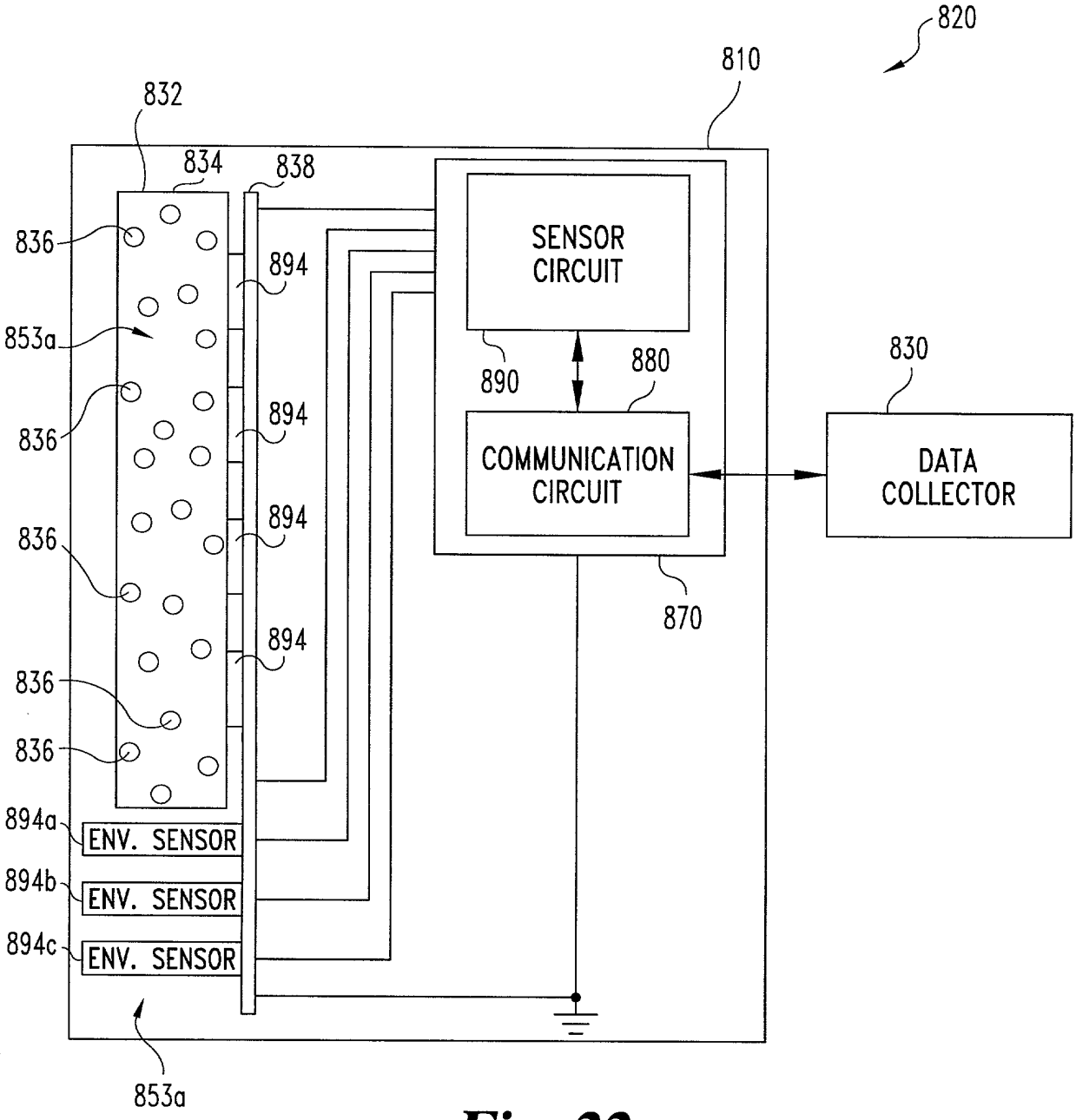
820
810
832
834
838
836
894
853a
836
894
836
894
894
836
836
894a
ENV. SENSOR
894b
ENV. SENSOR
894c
ENV. SENSOR
853a
SENSOR CIRCUIT
890
880
COMMUNICATION CIRCUIT
870
830
DATA COLLECTOR

Fig. 22

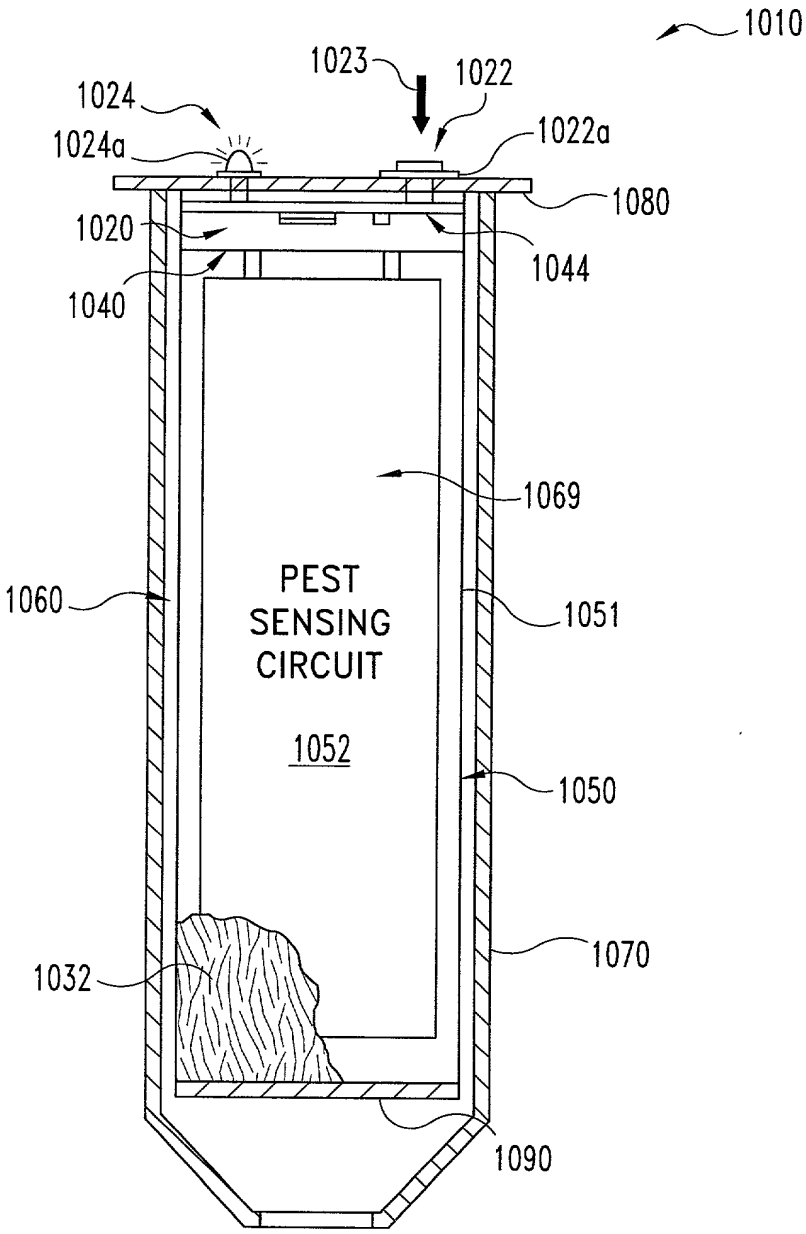
1010
1023
1022
1024
1024a
1022a
1080
1020
1044
1040
1069
PEST
SENSING
CIRCUIT
1052
1060
1051
1050
1070
1032
1090

Fig. 23

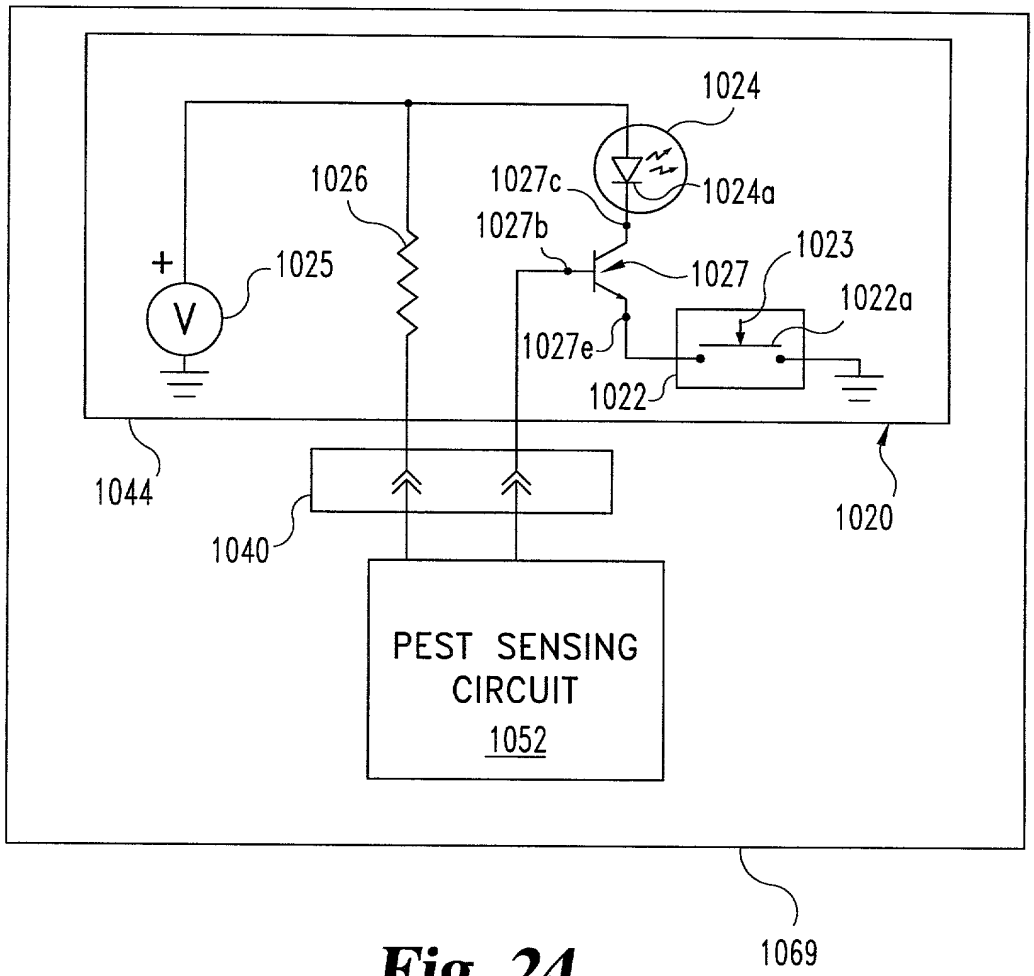
1024
1026
1027c
1024a
1027b
1023
+
1025
1027
1022a
V
1027e
1022
1044
1020
1040
PEST SENSING
CIRCUIT
1052
1069

Fig. 24

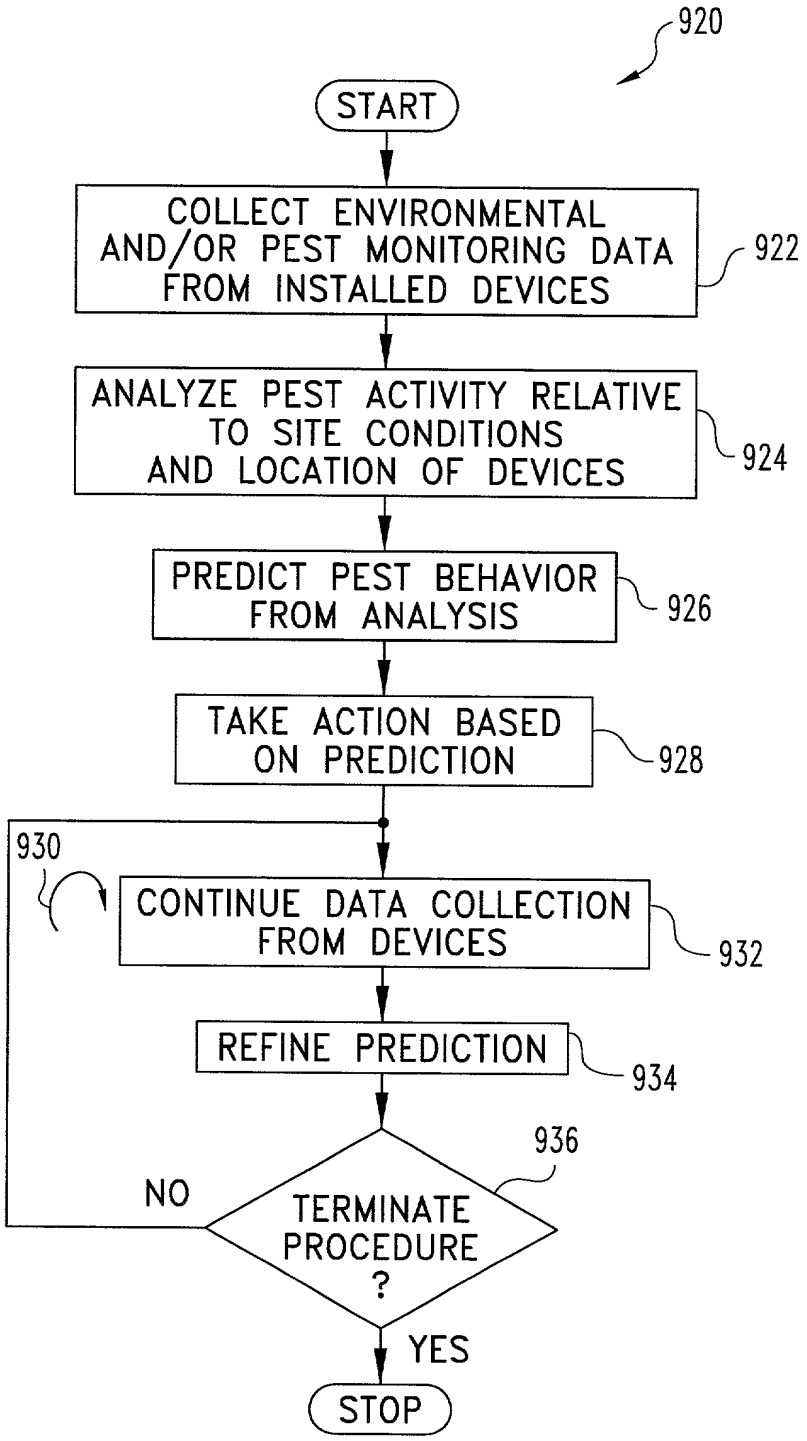
920
START
COLLECT ENVIRONMENTAL AND/OR PEST MONITORING DATA FROM INSTALLED DEVICES
922
ANALYZE PEST ACTIVITY RELATIVE TO SITE CONDITIONS AND LOCATION OF DEVICES
924
PREDICT PEST BEHAVIOR FROM ANALYSIS
926
TAKE ACTION BASED ON PREDICTION
928
930
CONTINUE DATA COLLECTION FROM DEVICES
932
REFINE PREDICTION
934
936
NO
TERMINATE PROCEDURE ?
YES
STOP

Fig. 25